

Claims

1. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship wherein three different block configurations are provided, stretcher and corner blocks having lengths at least one and a half times the width, and half block having the same width and a length up to half the length of stretcher and corner blocks, said blocks comprising:

a pair of spaced, parallel, upright sidewalls having flat top and bottom surfaces, said sidewalls having block-interlocking means;

a first transverse end wall extending between said sidewalls spaced from a second end of said blocks; and

a second transverse end wall extending between said sidewalls spaced from a second end of said blocks.

2. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the stretcher block comprises:

a pair of spaced, parallel, upright sidewalls (1, 2) having flat top and bottom surfaces, said sidewalls having block-interlocking means (3, 4, 5, 6) on opposed ends thereof;

a first transverse, protruding end wall (7) extending between said sidewalls at a first end of said block; and

a second transverse, protruding end wall (8) extending between said sidewalls spaced from a second end of said block.

3. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the corner block comprises:

a pair of spaced, parallel, upright sidewalls (9, 10) having flat top and bottom surfaces, said sidewalls having block-interlocking means (11, 12, 13, 14) on opposed ends thereof;

a first transverse end wall (15) extending between said sidewalls at a first end of said block;

a second transverse end wall (16) extending between said sidewalls spaced from a second end of said block;

a transverse upright support web (17) spans said sidewalls, integral and defining a cavity for receiving cementitious material therein; and

protrusions (18) on the inside of sidewalls, extending from a base substantially coplanar with said sidewall bottom surfaces and having tips extending above said sidewall top surfaces configured to interlock with a block in a next succeeding course.

4. An interlocking modular block system for mortarless wall assembly in which a plurality of blocks are laid up in courses in a staggered relationship according to claim 1 wherein the half block comprises:

a pair of spaced, parallel, upright sidewalls (19, 20) having flat top and bottom surfaces, said sidewalls having block-interlocking means (21, 22);

a first transverse end wall (23) extending between said sidewalls at a first end of said block;

a second transverse end wall (24) extending between said sidewalls spaced from a second end of said block; and

a protrusion (25) on the inside of said sidewalls, extending from a base substantially coplanar with said sidewall bottom surfaces and having a tip extending above said sidewall top surfaces configured to interlock with a block in a next succeeding course.

5. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the block-interlocking means comprises male and female interlocking means.

6. The interlocking modular block system for mortarless wall assembly according to claim 5 wherein the male and female interlocking means provide self-alignment features to the block system for mortarless wall assembly.

7. The interlocking modular block system for mortarless wall assembly according to any one of claims 1, 2, 3 or 4 wherein the blocks provide void space to house stability and stiffening means in both horizontal and vertical directions.

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